

TAKING AN ALTERNATIVE ROUTE

**DOMESTIC  
ALTERNATIVE**

**FUEL VEHICLE  
OUTLOOK**

ALTERNATIVE FUEL INFORMATION  
U. S. DEPARTMENT OF ENERGY

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## **ALTERNATIVE-FUEL VEHICLE OUTLOOK**

The requirements of the Clean Air Act Amendments of 1990 and the Energy Policy Act (EPACT) of 1992 continue to motivate U.S. automobile manufacturers to explore alternative-fuel vehicle (AFV) options to supply the nation's transportation fleets. Although the current production of AFVs is limited, the automobile industry anticipates future growth and is developing strategies for using a wide range of alternative fuels. Fleets continue to be the largest customers for AFVs.

The three major U.S. automobile manufacturers offer cars, trucks, and vans powered by compressed natural gas (CNG), alcohol (methanol [M85] and ethanol [E85]), liquefied petroleum gas (propane), and electricity. They also enter into partnerships with outside companies to convert specially prepared vehicles into AFVs. Automakers offer vehicles prepared for conversion with warranties that cover the gasoline components. Aftermarket conversions are available for most fuels, and manufacturers of conversion kits provide warranties for the alternative-fuel components. Several small companies specialize in converting conventional cars into electric vehicles (EVs), and others make hybrid vehicles (i.e., vehicles that combine two fuel systems, such as a gasoline engine with an electric system). Fleet owners should check with manufacturers to determine whether their conversions are covered by warranties.

The market remains uncertain, however, and the numbers and types of AFVs available to consumers vary accordingly. General Motors plans to return to the CNG market in 1997 after a three-year hiatus. Chrysler suspended production of CNG vehicles at the end of the 1996 model year; however, the automaker plans to reenter the CNG market in the future. Meanwhile, Ford continues to offer several types of CNG vehicles.

In 1995, only one EV was available from a major U.S. automaker, and it was produced in small numbers. For the 1997 model year, however, Chrysler offers a second-generation electric minivan called EPIC, and General Motors introduces the EV1 sedan and an electric version of the Chevrolet S-Series light-duty truck. Ford has announced the 1998 Ranger EV as its entry in this market. U.S. automakers, in cooperation with the U.S. Department of Energy, continue to research EV technology, particularly the area of advanced batteries that will increase vehicle range and reduce costs.

In addition to considering the availability of appropriate models, fleet managers must also base their vehicle choices on federal, state, and local requirements and incentives. For example, the federal fleet is subject to mandated AFV acquisition targets. It is hoped that the federal fleet's AFV experience and the resulting steps toward establishing a refueling infrastructure will encourage further development of other AFV fleets. In addition, EPACT allows for substantial federal tax credits and deductions for AFV purchases. Some state and local governments further encourage the use of AFVs by increasing fleet acquisition requirements beyond federal mandates and eliminating taxes on certain fuels.

This document summarizes only AFVs available from the three major U.S. automakers and presents information available at the time of publication. It is expected that more AFVs will be announced for the 1998 model year. For further information about AFVs, please refer to the Alternative Fuels Data Center home page at <http://www.afdc.doe.gov/> or telephone the National Alternative Fuels Hotline at 1-800-423-1DOE.

## 1998 Model Year

### **ELECTRIC**



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: Ranger EV**

AVAILABILITY:	1998 model year
VEHICLE TYPE:	Light-duty truck
EMISSION CLASSIFICATION:	California zero-emission vehicle (ZEV)
POWERTRAIN:	75-hp, high-efficiency 3-phase AC induction motor
DRIVETRAIN:	Rear-wheel drive (RWD)
TRANSMISSION:	Single-speed, direct-coupled transaxle
FUEL CAPACITY:	23 kWh (18 kWh at 80% discharge); 39 8-V lead-acid battery modules
MULTI-FUEL:	No — dedicated
SPECIAL MAINTENANCE:	None
WARRANTY:	Vehicle: full OEM through dealer Battery: two-year (prorated)
ADDITIONAL COSTS:	Contact dealer for information
NO. OF UNITS PLANNED:	Depends on orders received
COMMENTS:	Regenerative braking; on-board charging; electrohydraulic steering; reprogrammable electronics
ORDERING INFORMATION:	Call 1-800-ALT-FUEL

## 1997 Model Year

### METHANOL/ETHANOL AND GASOLINE



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: Taurus**

AVAILABILITY:	First quarter 1997
VEHICLE TYPE:	Midsize passenger sedan
EMISSION CLASSIFICATION:	Methanol: California transitional low-emission vehicle (TLEV) Ethanol: Tier 1
POWERTRAIN:	3.0 liter V-6 engine upgraded for alcohol fuel
DRIVETRAIN:	Front-wheel drive (FWD)
TRANSMISSION:	Automatic overdrive
FUEL CAPACITY:	18 gallons
MULTI-FUEL:	Yes — flexible fuel: either M85/gasoline or E85/gasoline
SPECIAL MAINTENANCE:	Special motor oil required
WARRANTY:	Full OEM
ADDITIONAL COSTS:	Contact dealer for information
NO. OF UNITS PLANNED:	Depends on orders received
COMMENTS:	Revised catalyst and electric thermactor air added for methanol; new in-tank fuel delivery module; revised fuel composition sensor
ORDERING INFORMATION:	Call 1-800-ALT-FUEL

### COMPRESSED NATURAL GAS



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: Crown Victoria**

AVAILABILITY:	1997 model year
VEHICLE TYPE:	Full-size passenger sedan
EMISSION CLASSIFICATION:	California ultra-low emission vehicle (ULEV); federal inherently low emission vehicle (ILEV)
POWERTRAIN:	4.6 liter V-8
DRIVETRAIN:	RWD
TRANSMISSION:	Electronic 4-speed automatic overdrive
FUEL CAPACITY:	10 gasoline gallon equivalent (GGE) of CNG
MULTI-FUEL:	No — dedicated
SPECIAL MAINTENANCE:	Periodic visual tank inspection
WARRANTY:	Full OEM
ADDITIONAL COSTS:	Contact dealer for information
NO. OF UNITS PLANNED:	Depends on orders received
COMMENTS:	Refueling time: 3-4 minutes fast fill; 6-7 hours with home refueling appliance
ORDERING INFORMATION:	Call 1-800-ALT-FUEL

**COMPRESSED NATURAL GAS**



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: Econoline**

AVAILABILITY:	Second quarter 1997
VEHICLE TYPE:	Light-duty truck (van)
EMISSION CLASSIFICATION:	California ULEV; federal ILEV targeted
POWERTRAIN:	5.4 liter V-8, 195-hp modular engine
DRIVETRAIN:	RWD
TRANSMISSION:	4-speed or 3-speed automatic
FUEL CAPACITY:	8.5 GGE of CNG; 17.6 GGE with optional tank package
MULTI-FUEL:	No — dedicated
SPECIAL MAINTENANCE:	Periodic visual tank inspection
WARRANTY:	Full OEM
ADDITIONAL COSTS:	Contact dealer for information
NO. OF UNITS PLANNED:	Depends on orders received
COMMENTS:	Underbody Type 2 steel fuel containers
ORDERING INFORMATION:	Call 1-800-ALT-FUEL

**COMPRESSED NATURAL GAS**



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: F-250**

AVAILABILITY:	Second quarter 1997
VEHICLE TYPE:	Light-duty truck
EMISSION CLASSIFICATION:	California ULEV; federal ILEV targeted
POWERTRAIN:	5.4 liter V-8, 195-hp modular engine
DRIVETRAIN:	RWD/4WD
TRANSMISSION:	4-speed or 3-speed automatic
FUEL CAPACITY:	15 GGE of CNG; 20.5 GGE with optional tank package
MULTI-FUEL:	No — dedicated
SPECIAL MAINTENANCE:	Periodic visual tank inspection
WARRANTY:	Full OEM
ADDITIONAL COSTS:	Contact dealer for information
NO. OF UNITS PLANNED:	Depends on orders received
COMMENTS:	Type 2 steel fuel containers: in-bed standard, underbody optional
ORDERING INFORMATION:	Call 1-800-ALT-FUEL



**COMPRESSED NATURAL GAS AND GASOLINE**



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: Contour**

AVAILABILITY: 1996/1997 model year  
VEHICLE TYPE: Passenger car  
EMISSION CLASSIFICATION: California TLEV  
POWERTRAIN: 2.0 liter gaseous bi-fuel prep engine with internal upgrades for enhanced durability  
DRIVETRAIN: FWD  
TRANSMISSION: Electronic 4-speed automatic transaxle  
FUEL CAPACITY: 14.5 gallons of gasoline plus 4.2 GGE of CNG  
MULTI-FUEL: Yes — bi-fuel with automatic switching  
SPECIAL MAINTENANCE: Periodic visual tank inspection  
WARRANTY: Full OEM equivalent  
ADDITIONAL COSTS: Contact dealer for information  
NO. OF UNITS PLANNED: Depends on orders received  
COMMENTS: Natural gas tanks located in trunk area; 4-wheel disc brakes  
ORDERING INFORMATION: 1-800-ALT-FUEL

**COMPRESSED NATURAL GAS AND GASOLINE**



**MANUFACTURER: General Motors**  
**PRODUCT OFFERING: Chevrolet C2500**

AVAILABILITY: 1997 calendar year (planned)  
VEHICLE TYPE: Light-duty truck  
EMISSION CLASSIFICATION: Federal Clean Fuel Fleet; California low-emission vehicle (LEV)  
POWERTRAIN: 5.7 liter Vortec 5700 with KL6 option validated for gaseous fuel  
DRIVETRAIN: RWD  
TRANSMISSION: 4-speed automatic  
FUEL CAPACITY: 34 gallons of gasoline plus 13.2 GGE of CNG at 3,600 psi  
MULTI-FUEL: Yes — CNG is primary fuel, automatic switching  
SPECIAL MAINTENANCE: CNG tank inspection every 3 years; operation on gasoline every 60 days to purge aged gasoline from fuel system  
WARRANTY: Full OEM-equivalent through Chevrolet dealers  
ADDITIONAL COSTS: To be determined (TBD)  
NO. OF UNITS PLANNED: Depends on orders received  
COMMENTS: CNG fuel tank is located at front of bed with steel protective cover; effective bed length is 6 ft, 1 in.; CNG tank meets General Motors tank test specifications and is certified to NGV2 standards  
ORDERING INFORMATION: Call 1-888-GM-CFT-4U

## **COMPRESSED NATURAL GAS AND GASOLINE**



**MANUFACTURER: General Motors**  
**PRODUCT OFFERING: GMC Sierra 2500**

AVAILABILITY:	1997 calendar year (planned)
VEHICLE TYPE:	Light-duty truck
EMISSION CLASSIFICATION:	Federal Clean Fuel Fleet; California LEV
POWERTRAIN:	5.7 liter Vortec 5700 V-8 with KL6 option validated for gaseous fuel
DRIVETRAIN:	RWD
TRANSMISSION:	4-speed automatic
FUEL CAPACITY:	34 gallons of gasoline plus 13.2 GGE of CNG at 3,600 psi
MULTI-FUEL:	Yes — CNG is primary fuel, automatic switching
SPECIAL MAINTENANCE:	CNG tank inspection every 3 years; operation on gasoline every 60 days to purge aged gasoline from fuel system
WARRANTY:	Full OEM through Chevrolet dealers
ADDITIONAL COSTS:	TBD
NO. OF UNITS PLANNED:	Depends on orders received
COMMENTS:	CNG fuel tank is located at front of bed with steel protective cover; effective bed length is 6 ft, 1 in.; CNG tank meets General Motors tank test specifications and is certified to NGV2 standards
ORDERING INFORMATION:	Call 1-888-GM-CFT-4U

## **LIQUEFIED PETROLEUM GAS**



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: F-700**

AVAILABILITY:	Second quarter 1997
VEHICLE TYPE:	Cab truck
EMISSION CLASSIFICATION:	California and federal heavy- duty engine standard
POWERTRAIN:	7.0 liter 218-hp at 3,600 rpm
DRIVETRAIN:	RWD
TRANSMISSION:	Manual or automatic
FUEL CAPACITY:	Temporary 7-gallon fuel tank; customer chooses permanent tank configuration
MULTI-FUEL:	No — dedicated
SPECIAL MAINTENANCE:	None
WARRANTY:	Full OEM
ADDITIONAL COSTS:	Contact dealer for information
NO. OF UNITS PLANNED:	Depends on orders received
COMMENTS:	Hydraulic or air brakes
ORDERING INFORMATION:	See your Ford truck dealer for complete specifications, options, and prices.

**ELECTRIC**



**MANUFACTURER: General Motors  
PRODUCT OFFERING: EV1**

AVAILABILITY: 1997 model year in Los Angeles, San Diego, Phoenix, and Tucson markets

VEHICLE TYPE: Two-passenger car

EMISSION CLASSIFICATION: Federal Clean Fuel Fleet; California ZEV/ILEV

POWERTRAIN: 102-kW (137-hp), three-phase, liquid-cooled AC induction motor

DRIVETRAIN: FWD

TRANSMISSION: Fixed ratio transaxle

FUEL CAPACITY: 16.2 kW, Delphi Energy Systems 312-V recyclable lead-acid battery pack

MULTI-FUEL: No — dedicated

SPECIAL MAINTENANCE: None

WARRANTY: Full OEM through Saturn dealers

ADDITIONAL COSTS: Contact Saturn dealers for information

NO. OF UNITS PLANNED: Depends on orders received

COMMENTS: Standard antilock brakes, driver and passenger airbags, daytime running lamps, air conditioning; offboard Delco Electronics Magne-Charge inductive charger rated 6.6 kW at 156-260 VAC; estimated range: 90 miles highway, 70 miles city

ORDERING INFORMATION: Call 1-800-25ELECTRIC

**ELECTRIC**



**MANUFACTURER: General Motors  
PRODUCT OFFERING: Chevrolet S-Series**

AVAILABILITY: 1997 calendar year

VEHICLE TYPE: Light-duty truck

EMISSION CLASSIFICATION: Federal Clean Fuel Fleet; California ZEV

POWERTRAIN: 85-kW (114-hp) three-phase, liquid-cooled AC motor

DRIVETRAIN: FWD

TRANSMISSION: Fixed ratio transaxle

FUEL CAPACITY: 16.2 kW, Delphi Energy Systems 312-V recyclable lead acid battery pack

MULTI-FUEL: No — dedicated

SPECIAL MAINTENANCE: None

WARRANTY: Full OEM through Chevrolet dealers

ADDITIONAL COSTS: Call 1-800-222-1020 for information

NO. OF UNITS PLANNED: Depends on orders received

COMMENTS: Standard antilock brakes, daytime running lamps, air conditioning; offboard Delco Electronics Magne-Charge inductive charger rated 6.6 kW at 156-260 VAC; estimated range: 45 miles highway, 40 miles city, 60 miles at 45-mph constant speed

ORDERING INFORMATION: Call 1-800-222-1020

**ELECTRIC**



**MANUFACTURER: Chrysler**  
**PRODUCT OFFERING: EPIC Van/Voyager**

(Electric-Powered Interurban Commuter)

AVAILABILITY: Limited availability in 1997,  
primarily California

VEHICLE TYPE: Minivan

EMISSION CLASSIFICATION: California ZEV

POWERTRAIN: AC system

DRIVETRAIN: FWD

TRANSMISSION: One-speed automatic

FUEL CAPACITY: 27 12-volt advanced lead-acid  
batteries

MULTI-FUEL: No — dedicated

SPECIAL MAINTENANCE: Battery replacement after 2-3 years

WARRANTY: Vehicle: 3 year/36,000 miles  
Battery: TBD

ADDITIONAL COSTS: Contact dealer for information

NO. OF UNITS PLANNED: Depends on orders received

COMMENTS: Chrysler's second-generation  
electric vehicle

ORDERING INFORMATION: Mike Clement  
Chrysler Corporation  
27777 Franklin Road  
Southfield, MI 48034  
Phone: 810-948-3644  
Fax: 810-9488-3883

## 1996 Model Year

### METHANOL/ETHANOL AND GASOLINE



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: Taurus**

AVAILABILITY: 1996 model year  
VEHICLE TYPE: Full-size sedan  
EMISSION CLASSIFICATION: M85 — California TLEV/  
49-state Tier 1  
E85 — 49-state Teir 1  
POWERTRAIN: 3.0 liter V-6  
DRIVETRAIN: RWD  
TRANSMISSION: Automatic overdrive  
FUEL CAPACITY: 18 liquid gallons  
(GGE: M85 — 11; E85 — 13)  
MULTI-FUEL: Yes — flexible fuel, either  
M85/gasoline or E85/gasoline  
SPECIAL MAINTENANCE: Special engine oil  
WARRANTY: Full OEM  
COMMENTS: Standard driver/right front  
passenger airbag

### COMPRESSED NATURAL GAS



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: Crown Victoria**

AVAILABILITY: 1996 model year  
VEHICLE TYPE: Full-size sedan  
EMISSION CLASSIFICATION: California ULEV; federal ILEV  
POWERTRAIN: 4.6 liter V-8  
DRIVETRAIN: RWD  
TRANSMISSION: Electronic/automatic overdrive  
FUEL CAPACITY: 10 GGE of CNG at 3,000 psi  
MULTI-FUEL: No — dedicated  
SPECIAL MAINTENANCE: Periodic fuel-cylinder inspection  
WARRANTY: Full OEM  
COMMENTS: None

**COMPRESSED NATURAL GAS**



**MANUFACTURER: Chrysler**  
**PRODUCT OFFERING: Dodge Ram Van/Wagon**

AVAILABILITY:	1996 model year
VEHICLE TYPE:	Van/wagon
EMISSION CLASSIFICATION:	California ULEV; federal ILEV
POWERTRAIN:	5.2 liter V-8
DRIVETRAIN:	RWD
TRANSMISSION:	4-speed automatic
FUEL CAPACITY:	11.1-14.5 GGE at 3,000 psi
MULTI-FUEL:	No — dedicated
SPECIAL MAINTENANCE:	Periodic fuel-cylinder inspection
WARRANTY:	Full OEM
COMMENTS:	Available B-250 Non-Maxi and B-350 Non-Maxi and Maxi models

**COMPRESSED NATURAL GAS**



**MANUFACTURER: Chrysler**  
**PRODUCT OFFERING: Dodge Ram Pickup**

AVAILABILITY:	1996 model year
VEHICLE TYPE:	Pickup
EMISSION CLASSIFICATION:	California ULEV; federal ILEV
POWERTRAIN:	5.2 liter V-8
DRIVETRAIN:	RWD
TRANSMISSION:	4-speed automatic
FUEL CAPACITY:	16.3 GGE at 3,000 psi
MULTI-FUEL:	No — dedicated
SPECIAL MAINTENANCE:	Periodic fuel-cylinder inspection
WARRANTY:	Full OEM
COMMENTS:	Available 1/2-ton, 3/4-ton 4 x 2 8-ft conventional cab models

**COMPRESSED NATURAL GAS**



**MANUFACTURER: Chrysler**  
**PRODUCT OFFERING: Dodge Grand Caravan/  
Plymouth Grand Voyager**

AVAILABILITY: 1996 model year  
VEHICLE TYPE: Minivan  
EMISSION CLASSIFICATION: California ULEV; federal ILEV  
POWERTRAIN: 3.3 liter V-6  
DRIVETRAIN: FWD  
TRANSMISSION: 4-speed automatic  
FUEL CAPACITY: 10.1 GGE at 3,000 psi  
MULTI-FUEL: No — dedicated  
SPECIAL MAINTENANCE: Periodic fuel-cylinder inspection  
WARRANTY: Full OEM  
COMMENTS: Available base and SE trim and  
7-passenger seating

**COMPRESSED NATURAL GAS AND GASOLINE**



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: Econoline**

AVAILABILITY: 1996 model year  
VEHICLE TYPE: Light-duty truck (van)  
EMISSION CLASSIFICATION: Federal and California gasoline  
levels  
POWERTRAIN: 4.9 liter inline 6, gaseous fuel  
prep engine with internal upgrades  
for enhanced durability  
DRIVETRAIN: RWD  
TRANSMISSION: 4-speed or 3-speed automatic  
FUEL CAPACITY: 35 gallons gasoline, plus  
7.5-15.4 GGE of CNG, depending  
on tank configuration  
MULTI-FUEL: Yes — bi-fuel with automatic  
switching  
SPECIAL MAINTENANCE: Periodic visual tank inspection  
WARRANTY: Full OEM equivalent  
COMMENTS: None

**COMPRESSED NATURAL GAS AND GASOLINE**

**LIQUEFIED PETROLEUM GAS AND GASOLINE**



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: F-Series**

**MANUFACTURER: Ford**  
**PRODUCT OFFERING: F-series**

AVAILABILITY: 1996 model year  
VEHICLE TYPE: Light-duty truck  
EMISSION CLASSIFICATION: Federal and California gasoline levels  
POWERTRAIN: 4.9 liter inline 6, gaseous fuel prep engine with internal upgrades for enhanced durability  
DRIVETRAIN: RWD/4WD  
TRANSMISSION: 4-speed or 3-speed automatic  
FUEL CAPACITY: 18.2 gallons of gasoline, plus 7.6-12.2 GGE of CNG, depending on tank configuration  
MULTI-FUEL: Yes — bi-fuel with automatic switching  
SPECIAL MAINTENANCE: Periodic visual tank inspection  
WARRANTY: Full OEM equivalent  
COMMENTS: None

AVAILABILITY: 1996 model year  
VEHICLE TYPE: Light-duty truck  
EMISSION CLASSIFICATION: Federal (not available in California emissions states)  
POWERTRAIN: 4.9 liter inline 6, gaseous fuel prep engine with internal upgrades for enhanced durability  
DRIVETRAIN: RWD  
TRANSMISSION: E4 overdrive, 4-speed, and 3-speed automatic  
FUEL CAPACITY: 18.2 gallons of gasoline, plus 21.6-35.6 GGE of LPG, depending on tank configuration  
MULTI-FUEL: Yes — bi-fuel with automatic switching  
SPECIAL MAINTENANCE: LPG filter change  
WARRANTY: Full OEM equivalent  
COMMENTS: None



**LIQUEFIED PETROLEUM GAS**



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: F-700**

AVAILABILITY:	1996 model year
VEHICLE TYPE:	Heavy-duty truck
EMISSION CLASSIFICATION:	California certified
POWERTRAIN:	7.0 liter, 218 hp
DRIVETRAIN:	RWD
TRANSMISSION:	5-speed direct, 5-6 speed direct, 4-5 speed automatic
FUEL CAPACITY:	Depends on tank configuration
MULTI-FUEL:	No — dedicated
SPECIAL MAINTENANCE:	None
WARRANTY:	Full OEM
COMMENTS:	None

## 1995 Model Year

### METHANOL/ETHANOL AND GASOLINE



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: Taurus**

AVAILABILITY: Fall 1994  
VEHICLE TYPE: Full-size sedan  
EMISSION CLASSIFICATION: California TLEV  
POWERTRAIN: 3.0 liter  
DRIVETRAIN: FWD  
TRANSMISSION: Automatic overdrive  
FUEL CAPACITY: 20.4 gallons  
MULTI-FUEL: Yes — flexible fuel [M85, gasoline-alcohol combinations including E85 (limited units authorized for E85 in 1995; standard option in 1996)]  
SPECIAL MAINTENANCE: Special oil required  
WARRANTY: Full OEM  
COMMENTS: Standard driver/right front passenger air bag

### METHANOL AND GASOLINE



**MANUFACTURER: Chrysler**  
**PRODUCT OFFERING: Dodge Intrepid**

AVAILABILITY: Fall 1994  
VEHICLE TYPE: Midsize sedan  
EMISSION CLASSIFICATION: California TLEV  
POWERTRAIN: 3.3 liter V-6  
DRIVETRAIN: FWD  
TRANSMISSION: 4-speed electronic automatic transaxle  
FUEL CAPACITY: 18.0 gallons  
MULTI-FUEL: Yes — flexible fuel: M85 and gasoline  
SPECIAL MAINTENANCE: Unique engine oil; same engine oil change interval as gasoline engine (7,500 miles)  
WARRANTY: Full OEM

**COMPRESSED NATURAL GAS**



**MANUFACTURER: Chrysler**  
**PRODUCT OFFERING: Dodge Ram Van/Wagon**

AVAILABILITY:	Fall 1994
VEHICLE TYPE:	Full-size van/wagon
EMISSION CLASSIFICATION:	California LEV
POWERTRAIN:	5.2 liter V-8
DRIVETRAIN:	RWD
TRANSMISSION:	4-speed automatic
FUEL CAPACITY:	11.1 GGE of CNG at 3,000 psi; optional 14.4 GGE at 3,000 psi
	Ram Maxi Van Wagon: 15.7 GGE of CNG at 3,000 psi
MULTI-FUEL:	No — dedicated
SPECIAL MAINTENANCE:	Periodic fuel-cylinder inspection
WARRANTY:	Full OEM
COMMENTS:	Both the Ram Van (commercial model) and the Ram Wagon (passenger model) are available in the B-250 and B-350 models

**COMPRESSED NATURAL GAS**



**MANUFACTURER: Chrysler**  
**PRODUCT OFFERING: Dodge Ram Pickup**

AVAILABILITY:	Winter 1994/Spring 1995
VEHICLE TYPE:	Full-size pickup
EMISSION CLASSIFICATION:	California LEV, federal ILEV
POWERTRAIN:	5.2 liter V-8
DRIVETRAIN:	RWD
TRANSMISSION:	4-speed automatic
FUEL CAPACITY:	17.1 GGE of CNG at 3,000 psi
MULTI-FUEL:	No — dedicated
SPECIAL MAINTENANCE:	Periodic fuel-cylinder inspection
WARRANTY:	Full OEM
COMMENTS:	Bed length reduced from 8 ft to 5 ft, 10 in.

**COMPRESSED NATURAL GAS**



**MANUFACTURER: Chrysler**  
**PRODUCT OFFERING: Dodge Caravan/Plymouth Voyager**

AVAILABILITY: Fall 1994  
GSA CLASSIFICATION: Minivan  
EMISSION CLASSIFICATION: California ULEV  
POWERTRAIN: 3.3 liter V-6  
DRIVETRAIN: FWD  
TRANSMISSION: 4-speed automatic  
FUEL CAPACITY: 8.2 GGE of CNG at 3,000 psi  
MULTI-FUEL: No — dedicated  
SPECIAL MAINTENANCE: Periodic fuel-cylinder inspection  
WARRANTY: Full OEM

**COMPRESSED NATURAL GAS**



**MANUFACTURER: Chrysler**  
**PRODUCT OFFERING: Dodge Dakota**

AVAILABILITY: Fall 1994  
GSA CLASSIFICATION: Midsize pickup  
EMISSION CLASSIFICATION: California LEV, ILEV  
POWERTRAIN: 5.2 liter V-8  
DRIVETRAIN: RWD  
TRANSMISSION: 4-speed automatic  
FUEL CAPACITY: 14.6 GGE of CNG at 3,000 psi  
MULTI-FUEL: No — dedicated  
SPECIAL MAINTENANCE: Periodic fuel-cylinder inspection  
WARRANTY: Full OEM  
COMMENTS: Bed length reduced from 8 ft to 5 ft, 10 in.

**COMPRESSED NATURAL GAS AND GASOLINE**



**MANUFACTURER: Ford**

**PRODUCT OFFERING: F-Series Gaseous Fuel Prep Vehicle, F150/250, Super Cab 4 x 4**

AVAILABILITY:	1995 regional roll-out, starting with Texas
VEHICLE TYPE:	Light-duty truck
EMISSION CLASSIFICATION:	1995 federal and California gasoline levels
POWERTRAIN:	4.9-liter inline 6, gaseous fuel prep engine with internal upgrades for durability on gaseous fuel
DRIVETRAIN:	RWD
TRANSMISSION:	4-speed or 3-speed automatic
FUEL CAPACITY:	Up to 12.1 GGE of CNG (depending on tank configuration) plus 18.2 gallons of gasoline
MULTI-FUEL:	Yes — bi-fuel with automatic switching
SPECIAL MAINTENANCE:	Periodic visual tank inspection
WARRANTY:	Full OEM equivalent through Ford dealers
COMMENTS:	Natural gas tanks located in box behind cab and/or under box

**COMPRESSED NATURAL GAS AND GASOLINE**



**MANUFACTURER: Ford**

**PRODUCT OFFERING: Econoline Gaseous Fuel Prep Vehicle, E250 HD, E350**

AVAILABILITY:	1995 regional roll-out, starting with Texas
VEHICLE TYPE:	Light-duty truck
EMISSION CLASSIFICATION:	1995 federal and California gasoline levels
POWERTRAIN:	4.9-liter inline 6, gaseous fuel prep engine with internal upgrades for durability on gaseous fuel
DRIVETRAIN:	RWD
TRANSMISSION:	4-speed or 3-speed automatic
FUEL CAPACITY:	Up to 12.1 GGE of CNG (depending on tank configuration) plus 35 gallons of gasoline
MULTI-FUEL:	Yes — bi-fuel automatic switching
SPECIAL MAINTENANCE:	Periodic visual tank inspection
WARRANTY:	Full OEM equivalent
COMMENTS:	A frame kit will be available to allow the packaging of two CNG tanks aft of axle. A fuel door kit will also be available to accommodate the CNG fuel filler receptacle.

**LIQUEFIED PETROLEUM GAS**



**MANUFACTURER: Ford**  
**PRODUCT OFFERING: F600/F700**

AVAILABILITY: Spring 1994  
VEHICLE TYPE: Heavy-duty cab truck  
EMISSION CLASSIFICATION: California certified  
POWERTRAIN: 7.0 liter, 218 hp  
DRIVETRAIN: RWD  
TRANSMISSION: 5-speed direct, 5-6-speed  
direct, 4-5-speed automatic  
FUEL CAPACITY: Depends on permanent LPG  
tank installed by aftermarket  
(Ford fitted with a temporary  
7-gallon tank)  
MULTI-FUEL: No — dedicated  
SPECIAL MAINTENANCE: None  
WARRANTY: Full OEM

**ELECTRIC**



**MANUFACTURER: Chrysler**  
**PRODUCT OFFERING: Dodge/Plymouth TE Van**

AVAILABILITY: Winter 1994  
VEHICLE TYPE: Minivan  
EMISSION CLASSIFICATION: ZEV  
POWERTRAIN: 70-hp DC (Max), 35-hp DC  
(continuous)  
DRIVETRAIN: FWD, electric motor  
TRANSMISSION: 2-speed manual with park  
and reverse  
FUEL CAPACITY: Either of two battery types:  
nickel-cadmium (32 kWh) or  
nickel-iron (36 kWh)  
MULTI-FUEL: No — dedicated  
SPECIAL MAINTENANCE: Battery watering,  
battery-blower maintenance,  
air-blower filter changes  
WARRANTY: 3 years/36,000 miles



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